



## Criterion B

## Analysis

### Proposed Solution ~

Professionally printed Florence History Booklet produced with Adobe Photoshop and InDesign

### ~ Requirement Specification ~

#### IT System Requirements ~

- Hardware –PC with Internet connection, 4GB RAM and 500 GB internal hard drive, external hard drive for backup, HP scanner capable of up to 2400 dpi.
- Software –Adobe Photoshop for image editing and Adobe InDesign for desktop publishing, web browser (i.e. Firefox) for searching for information and images, scanning software

#### System Interaction ~

- Compatibility of Adobe Photoshop and InDesign my PC and the Macintosh computers in the school lab.
- Compatibility of the external hard drive with my home PC and the school Macintosh computers
- Compatibility of the desktop published file created on my home PC with the hardware/software and font installation used by the printer

#### Input / Output Requirements ~

##### Input

- Text content for the workbook comes from Mr. Matthews
- Image files to be provided by Mr. Matthews from art books, materials from the museums and historical sites in Florence and from photographs taken during previous trips. Where necessary some images from the Internet may be required. Some images scanned from books in the library.

##### Output

- Sections of the workbook: Renaissance Artists and Writers, Glossaries (Architecture, Painting, Sculpture), Sites and Museums (Academy, Baptistery, Bargello, Brancacci Chapel, Cathedral of Florence, Dome Museum, Medici Chapels, Orsanmichele, Palazzo Davanzati, Palazzo della Signoria, San Lorenzo, Cellini Casts the Perseus, Santa Maria Novella, Science Museum, Uffizi Gallery), Independent Assignments, Glossary
- Consistent well-designed page layout
- High resolution images
- Appropriate font for the titles and subtitle.
- Use of lines for student writing

**Processing ~**

- Create the workbook using book feature in InDesign
- Edit images in Photoshop and place in InDesign
- Create master items
- Create and use master pages for consistent design

**Security ~**

- saving as PDF
- add password protection and security restrictions
- the Florence workbook will be saved in the secure area of the school server used by Mr. Matthews
- the school server is backed up onto a RAID system
- a backup copy will be kept by Mr. Matthews on the external hard drive

**Specific Performance Criteria to Test Functionality ~**

To measure the effectiveness of website by providing:

- a) a well-designed and consistent workbook in InDesign
- b) master pages for creating new pages
- c) consistent text (i.e. content, amount of content, use of fonts, lines for student responses)
- d) high resolution images wherever possible
- e) a secure method to avoid access to the text and images photos being copied or unauthorized persons tampering with the workbook file.
- f) a secure method of backup to prevent the loss of the workbook file

### ~ Justification of Chosen Solution ~

Mr. Matthews and I met with the teachers who accompany the Florence trip to discuss the plans and design for the Florence workbook. They feel that a Florence workbook will solve the problems that have been encountered in the past. A shorter-sized workbook make it easier to carry and to write. Lines for the answers will show students the length of the response required and encourage neater writing. Students will no longer lose worksheets because the workbook will be stapled.

The teachers also feel that having a workbook with new layout and high resolution images will be highly motivating for the students to maintain and may also encourage the students to keep up the quality in their handwriting and sketches.

Mr. Matthews is quite excited about learning the basics of both Photoshop and InDesign because he sees the advantages of having all of his worksheets in one document. Updating the booklet is much easier than opening and editing lots of separate files. Also the danger of accidentally storing a worksheet in the wrong place is gone.

Mr. Matthews has also obtained approval from the Head of the Secondary School for funding 600 copies of the Florence booklet when it is completed. Mr. Dome , the owner of the printing company and a parent in the school, has provided a special price for this job and will work with us so that there are no problems with the printing or funding.

Mr. Matthews has provided me with a 500 GB external hard disk. This is more than adequate for backing up files and transporting them between home and school. This will also allow me to discuss the Florence workbook with him throughout development.

I have most of the necessary skills for using Adobe Photoshop and InDesign because I have been the editor of the school newspaper for two years. Mr. Dome has also offered to provide advice and there are online discussion forums for both Adobe Photoshop and InDesign. I am really looking forward to creating this workbook and learning how professional publishing is done.

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